

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating ٠
- Halogen Free. "Green" Device (Note 1) .
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS . Compliant. See Ordering Information)

Maximum Ratings

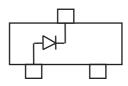
- Operating Junction Temperature Range: -55°C to +150°C •
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAS16	A6		

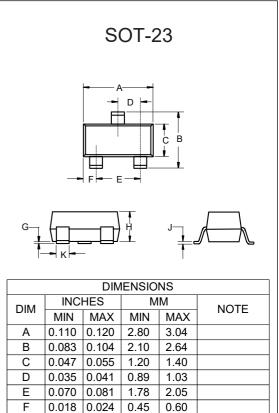
Parameter	Symbol	Value	
Reverse Voltage	V _R	100V	
Peak Reverse Voltage	V_{RM}	100V	
Working Peak Reverse Voltage	V _{RWM}	100V	
RMS Reverse Voltage	V _{R(RMS)}	70V	
Peak Forward Current	I _F	215mA	
Peak Forward Surge Current (t=1s)	-	1A	
(t=0.1ms)	I _{FSM}	4A	
Power Dissipation	P _{TOT}	350mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Configuration Top View

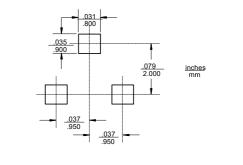


350mW 100Volt **Switching Diode**



DIIVI	MIN	MAX	MIN	MAX	NOTE
А	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.035	0.041	0.89	1.03	
Е	0.070	0.081	1.78	2.05	
F	0.018	0.024	0.45	0.60	
G	0.0005	0.0039	0.01	0.10	
Н	0.035	0.044	0.89	1.12	
J	0.003	0.007	0.085	0.180	
К	0.015	0.020	0.37	0.51	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Maximum		I _{FM} =1mA			0.715	V
	V	I _{FM} =10mA			0.855	V
Forward Voltage	Instantaneous V _F Forward Voltage	I _{FM} =50mA			1	V
		I _{FM} =100mA			1.25	V
Maximum DC Reverse Current	V _R =75V, T _J =25°C			1	μA	
	V _R =75V, T _J =150°C			50	μA	
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		2		pF
Reverse Recovery Time	t _{rr}	I _F =10mA, V _R = 6.0V,R _L =100Ω			4	ns

* Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics

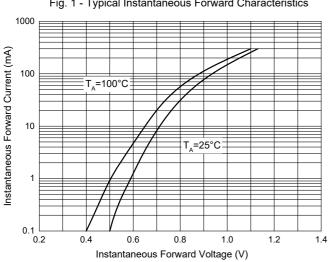
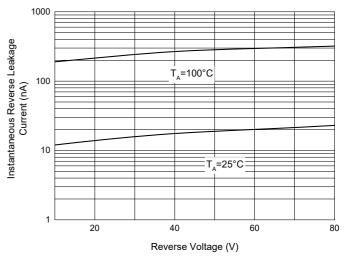
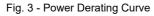
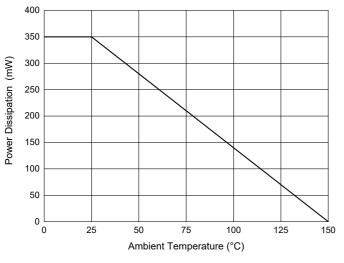


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics









Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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